



chain nodes :

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48				

chain bonds :

1-2	1-3	1-4	1-5	3-6	4-12	6-7	7-8	8-9	8-10	8-11	12-13	13-14	13-15	14-17	15-16
16-18	17-19	17-21	18-20	18-35	21-22	22-23	23-24	24-25	25-26	26-27	27-28	28-29			
29-30	30-31	31-32	32-33	33-34	35-36	36-37	37-38	38-39	39-40	40-41	41-42	42-43			
43-44	44-45	45-46	46-47	47-48											

exact/norm bonds :

1-2	1-3	1-4	1-5	3-6	4-12	7-8	8-9	8-10	8-11	13-14	14-17	15-16	16-18	17-19	18-20
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exact bonds :

6-7	12-13	13-15	17-21	18-35	21-22	22-23	23-24	24-25	25-26	26-27	27-28	28-29	29-30
30-31	31-32	32-33	33-34	35-36	36-37	37-38	38-39	39-40	40-41	41-42	42-43	43-44	
44-45	45-46	46-47	47-48										

Match level :

1:CLASS	2:CLASS	3:CLASS	4:CLASS	5:CLASS	6:CLASS	7:CLASS	8:CLASS	9:CLASS	10:CLASS
11:CLASS	12:CLASS	13:CLASS	14:CLASS	15:CLASS	16:CLASS	17:CLASS	18:CLASS	19:CLASS	
20:CLASS	21:CLASS	22:CLASS	23:CLASS	24:CLASS	25:CLASS	26:CLASS	27:CLASS	28:CLASS	
29:CLASS	30:CLASS	31:CLASS	32:CLASS	33:CLASS	34:CLASS	35:CLASS	36:CLASS	37:CLASS	
38:CLASS	39:CLASS	40:CLASS	41:CLASS	42:CLASS	43:CLASS	44:CLASS	45:CLASS	46:CLASS	
47:CLASS	48:CLASS								